

## Preparation of Flexible Transparent Electrode Using Polythiophene Derivatives

양희택, 정민훈, 조규진\*  
순천대학교 화학공학과  
(gcho@sunchon.ac.kr\*)

In this presentation, we would like to report a process for forming transparent electrode using conducting films on polymers used as substrates for different optoelectronic devices, more particularly for LCD and EL devices. To prepare the transparent electrode, an aqueous solution of polythiophene derivatives (PTD), prepared from emulsion polymerization, is simply cast on the polymer support for the formation of thin conductive films on the support. The resulting support shows a surface resistance of less than 400 W/sq with 80% of light transmittance. Furthermore, the conductive layer is relatively hard to scratch.